INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/010444

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ Cl2N15/13, Cl2N5/10, Cl2P21/02, C07K16/18, A61K39/395, G01N33/561, G01N33/53, G01N27/447

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ C12N15/13, C12N5/10, C12P21/02, C07K16/18, A61K39/395,
G01N33/561, G01N33/53, G01N27/447

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

JSTPLUS, WPI (DIALOG), BIOSIS (DIALOG), PUBMED

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Hisato TACHIBANA et al., "Mouse Fukko B-1 Saibo ni okeru joining chain Idenshi no Hatsugen", Nichidai Shigaku (2002), Vol.76, No.5, pages 425 to 433, page 428, right column, line 13 to page 430, left column, line 4	1-8
Y	STOLL T.S., Effects of culture conditions on the production and quality of monoclonal IgA., Enzyme Microb Technol (1997), Vol.21, No.3, pages 203 to 211, page 207, tables	1-8
. A	MAYUS J.L., Inhibition of in vitro anti-DNA B-cell responses by cyclosporine, Cell Immunol. (1985), Vol.94, No.1, pages 195 to 204	1-8

	1			
×	Further documents are listed in the continuation of Box C.		See patent family annex.	
* *A"	Special categories of cited documents: document defining the general state of the art which is not considered	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand	
A	be of particular relevance		the principle or theory underlying the invention	
"E" earlier application or patent but published on or after the international filing date		"X"	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
"L"	L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is	
"O"	document referring to an oral disclosure, use, exhibition or other means.		combined with one or more other such documents, such combination being obvious to a person skilled in the art	
"P"	document published prior to the international filling date but later than the priority date claimed	"&"	document member of the same patent family	
Date of the actual completion of the international search		Date	of mailing of the international search report	
05 October, 2004 (05.10.04)			26 October, 2004 (26.10.04)	
Name and mailing address of the ISA/ Japanese Patent Office		Auti	norized officer	
		1		
Facsimile No.		Tele	phone No.	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/010444

C(Continuation).	DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relev	ant passages	Relevant to claim No.
A .	STOCK S.J., Production and isolation of large quantities of monoclonal antibody a serum-free medium and fast protein liquid chromatography, Hybridoma (1989), Vol.8, No.2, pages 241 to 247	1-8	
	•		• • •
. [·	·
			•
		·	
		•	
			,
		•	
}			

INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2004/010444

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)		
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: 1. Claims Nos.:			
becaus	se they relate to subject matter not required to be searched by this Authority, namely:		
hecano	is Nos.: se they relate to parts of the international application that do not comply with the prescribed requirements to such an that no meaningful international search can be carried out, specifically:		
3. Claim becau	ns Nos.: use they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)		
There within to claims of inverse of 1 to 65	is no matter seemingly being a special technical feature in the meaning the second sentence of PCT Rule 13.2 common to the inventions according ms 1 to 8, claims 9 to 33, claims 34 and 36 to 40, claims 35 to 40, 41 and 43 to 48, claims 42 to 48, claims 49 and 52, claims 50, 51 and claims 54 to 65, either each other or all of these invention groups technical relevancy can be found out among these different groups nations in the meaning within PCT Rule 13. Deeing the case, it is obvious that the inventions according to claims do not comply with the requirement of unity of invention.		
	l searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of		
3. As or	additional fee. In some of the required additional search fees were timely paid by the applicant, this international search report covers those claims for which fees were paid, specifically claims Nos.:		
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Claims 1 to 8.			
Remark on P	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.		

COPY SUBMITTED IN IDS

INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2004/010444

Box No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item1.b of the first sheet)				
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of: 					
a. type	of material a sequence listing table(s) related to the sequence listing				
b. form	in written format in computer readable form				
c. time	of filing/furnishing contained in the international application as filed filed together with the international application in computer readable form				
or fu	furnished subsequently to this Authority for the purposes of search Idition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed raished, the required statements that the information in the subsequent or additional copies is identical to that in the cation as filed or does not go beyond the application as filed, as appropriate, were furnished.				
3. Additional	comments:				
: 					

Form PCT/ISA/210 (continuation of first sheet (1)) (January 2004)